2nd & final

005-20-000098

B.B. Umesh

NC/QC/BD/W5/2020-21/P2-2-C1 Date: 11-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.17%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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Page No. 1/1,

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NC/QC/BD/W5/2020-21/P2-3-PCC1 Date: 11-01-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21.

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.20	0-20	30- 70
10mm	30.90	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.70	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.25	60-95	75-100	85-100	
01.18	71.05	30-70	55-90	75-100	
600 mic	46.80	15-34	35-59	60-79	
300 mic	23.15	5-20	8-30	12-40	
150 mic	6.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CE1 Date: 15-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-FA1 **Date: 15-01-2021**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.45**	60-95	75-100	85-100	
01.18	**74.30**	30-70	55-90	75-100	
600. mic	**47.55**	15.34	35-59	60-79	
300.mic	**23.70**	5-20	8-30	12-40	
150.mic	**5.90**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.63 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CA1 Date: 15-01-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.70	85-100	90 - 100
10 mm	43.25	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.49%	Not to exceed 25 %
2.	Crushing value	28.71%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-SSM1 Date: 16-01-2021

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1375.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-SB1 Date: 20-01-2021

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 150 X 200	**Solid**	60000	260	4.33	
2	,,	,,	60000	255	4.25	**4.36**
3	,,	,,	60000	270	4.50	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

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NC/QC/BD/W5/2020-21/P2-2-CB1 Date: 29-01-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-01-21	29-01-21	07	22500	300	13.33	**13.41**
	002	"	"	"	"	295	13.11	
	003	"	"	"	"	310	13.78	

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CB1A Date: 26-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-01-21	26-02-21	28	22500	400	17.78	**18.30**
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	420	18.67	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-S1 Date: 29-01-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10, 12 and 16 mm **TMT Steel.**
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TABLE – 1

Details	For 8 mm		For 10 mm	
	Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
Observed Wt/m Length **Kg/m**	**0.399**	0.363	**0.621**	0.567
Proof stress/Yield stress, fy , **N/mm^2**	**560.0**	500.0	**558.0**	500.0
Bend/ Re bend Test	**Ok**	---	**Ok**	---
Percentage of Elongation, %	**19.80**	12.00	**20.50**	12.00
Ultimate Tensile Strength **N/mm^2**	**645.0**	545.0	**640.0**	545.0

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 29-01-2021

TABLE – 2

Details	For 12 mm		For 16 mm	
	Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
Observed diameter of bar	12.0 mm	12.0 mm	16.0 mm	16.0 mm
Observed Wt/m Length Kg/m	0.894	0.834	1.586	1.483
Proof stress/Yield stress, fy , N/mm^2	556.0	500.0	562.0	500.0
Bend/ Re bend Test	Ok	---	Ok	---
Percentage of Elongation, %	21.60	12.00	22.10	12.00
Ultimate Tensile Strength N/mm^2	639.0	545.0	632.0	545.0

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CB2 Date: 10-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-02-21	10-02-21	07	22500	370	16.44	**16.67**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CB3 Date: 12-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-21	12-02-21	07	22500	380	16.89	**16.81**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-CB4 Date: 15-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-02-21	15-02-21	07	22500	360	16.00	**16.07**
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT * BANGALORE *

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NC/QC/BD/W5/2020-21/P2-2-CB2A Date: 03-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-02-21	03-03-21	28	22500	505	22.44	**22.59**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANTS BANGALORE

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NC/QC/BD/W5/2020-21/P2-2-CB3A

Date: 05-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-21	05-03-21	28	22500	515	22.89	22.81
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-CB4A Date: 08-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-02-21	08-03-21	28	22500	525	23.33	**22.96**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-GSB1 Date: 22-03-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**96.45**	80-100
26.50	**78.60**	55-90
9.50	**52.15**	35-65
4.75	**46.05**	25-50
2.36	**17.25**	10-20
0.85	**8.50**	2-10
0.425	**3.65**	0-5

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 22-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.36**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.49**	----------
5.	Aggregate Impact Value, %	**28.54**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/BD/W5/2020-21/P2-2-GSB2

Date: 24-03-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.80	80-100
26.50	81.35	55-90
9.50	54.15	35-65
4.75	41.25	25-50
2.36	16.25	10-20
0.85	7.65	2-10
0.425	4.10	0-5

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EMAIL:newzen576@gmail.com

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Date: 24-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.41 %	Not more than 2.0 %
2.	Liquid Limit, %	18.65	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.19	----------
5.	Aggregate Impact Value, %	28.73	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.

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EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-W1 Date: 30-03-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.15**	95-100
26.50	**---**	-
22.40	**71.50**	60-80
11.20	**52.40**	40-60
4.75	**34.15**	25-40
2.36	**23.60**	15-30
0.600	**18.35**	8-22
0.075	**3.85**	0-5

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 30-03-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.89%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.31%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/BD/W5/2020-21/P2-2-W2 Date: 03-04-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.35**	95-100
26.50	**---**	-
22.40	**71.30**	60-80
11.20	**54.10**	40-60
4.75	**32.45**	25-40
2.36	**21.55**	15-30
0.600	**19.05**	8-22
0.075	**3.40**	0-5

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EMAIL:newzen576@gmail.com

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Date: 03-04-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.79%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-W3 Date: 05-04-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.35**	95-100
26.50	**---**	-
22.40	**73.90**	60-80
11.20	**51.25**	40-60
4.75	**34.75**	25-40
2.36	**25.40**	15-30
0.600	**17.30**	8-22
0.075	**4.05**	0-5

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EMAIL:newzen576@gmail.com

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Date: 05-04-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.65%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.79%**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-W4 Date: 07-04-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.35**	95-100
26.50	**---**	-
22.40	**72.45**	60-80
11.20	**54.60**	40-60
4.75	**32.25**	25-40
2.36	**21.90**	15-30
0.600	**18.55**	8-22
0.075	**4.10**	0-5

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Date: 07-04-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & MoRTH Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.19 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.54%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/BD/W5/2020-21/P2-2-W5 Date: 12-04-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.15	95-100
26.50	---	-
22.40	74.55	60-80
11.20	52.80	40-60
4.75	34.65	25-40
2.36	23.10	15-30
0.600	17.90	8-22
0.075	3.65	0-5

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